

FIG. 2

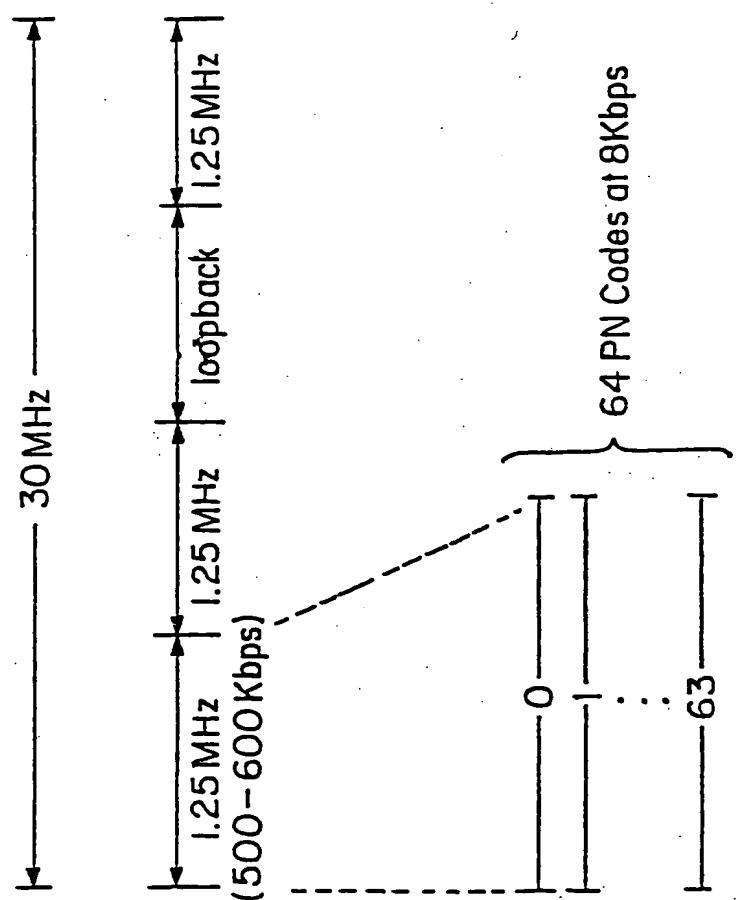


FIG. 3

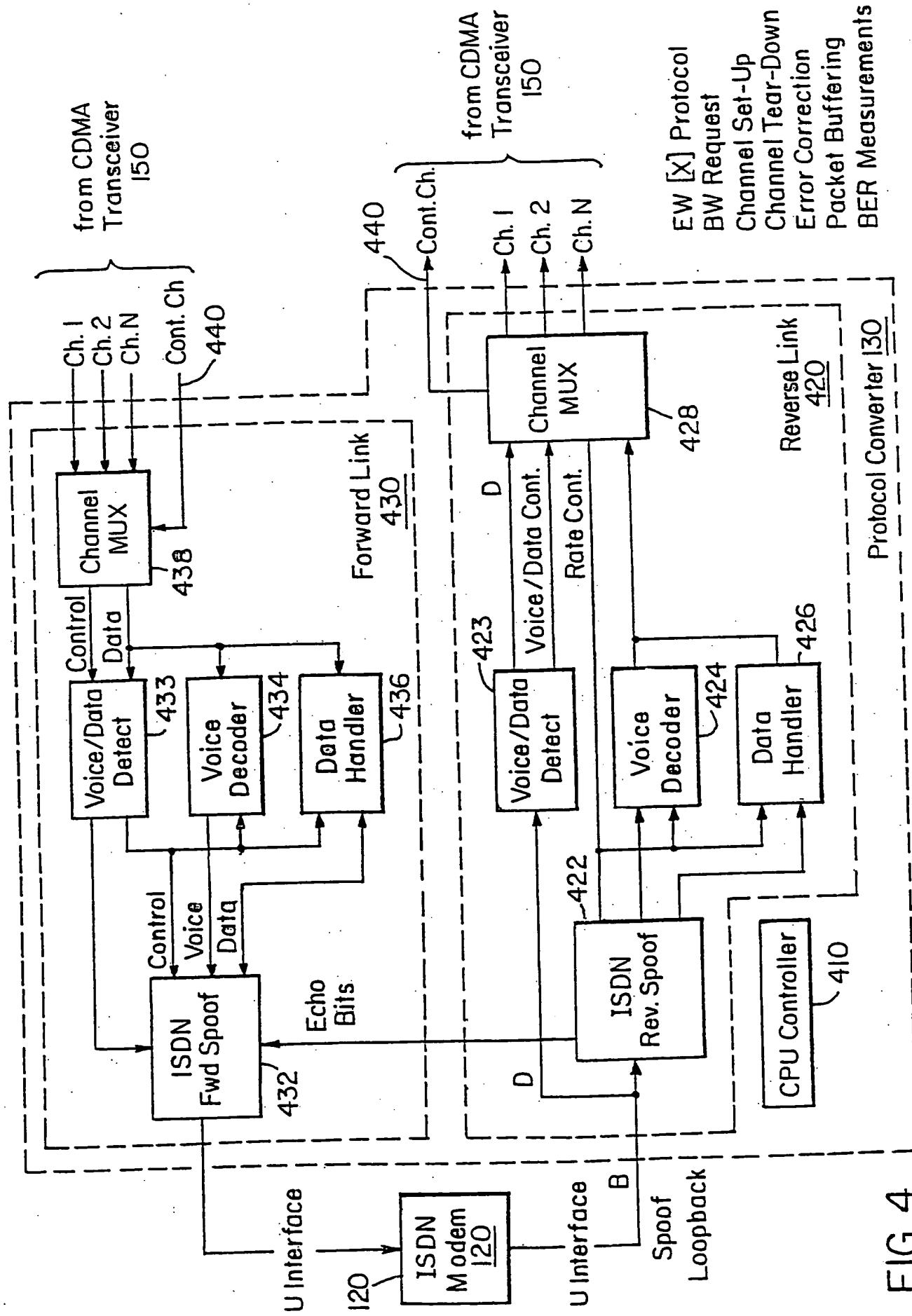


FIG. 4

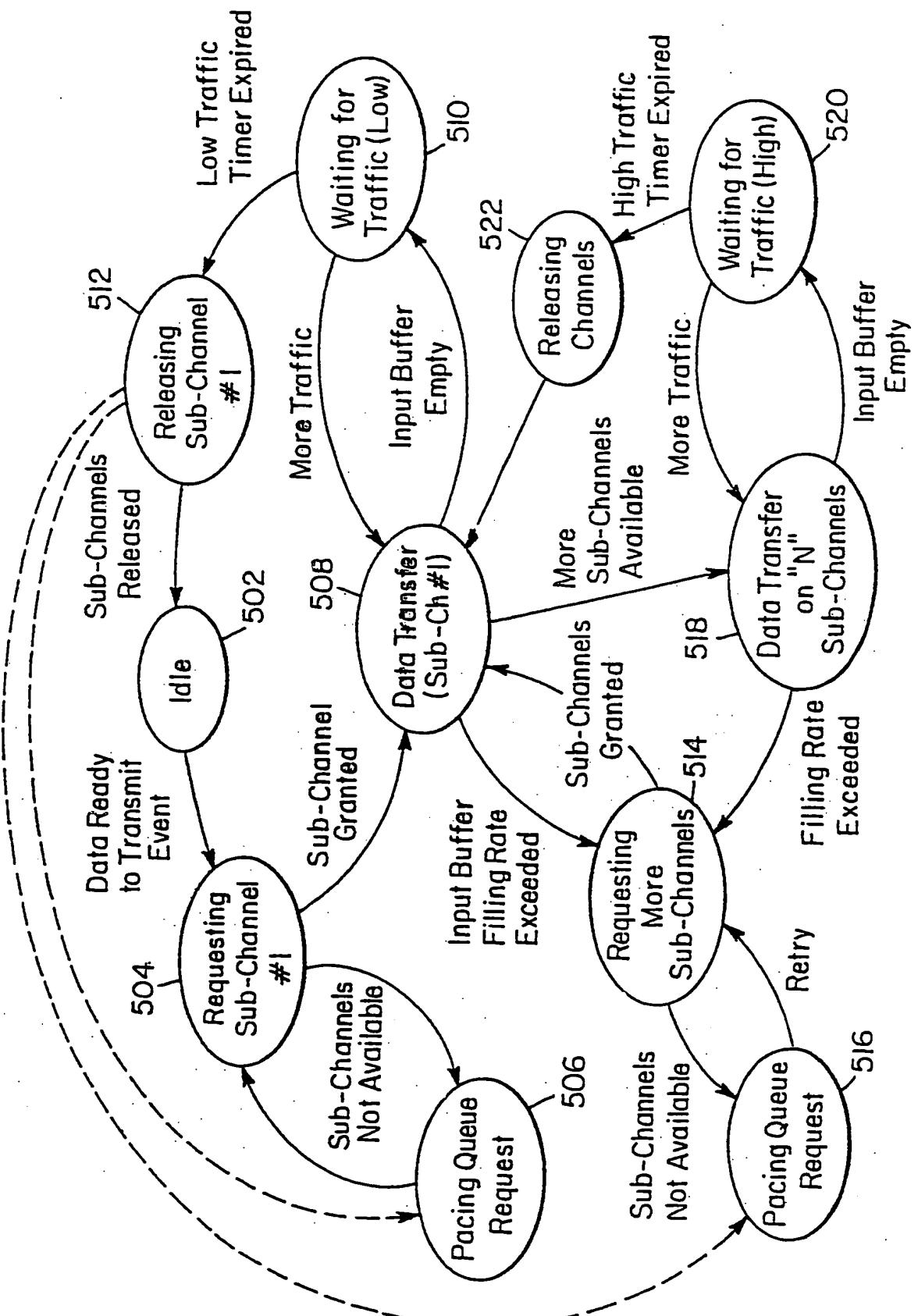


FIG. 5

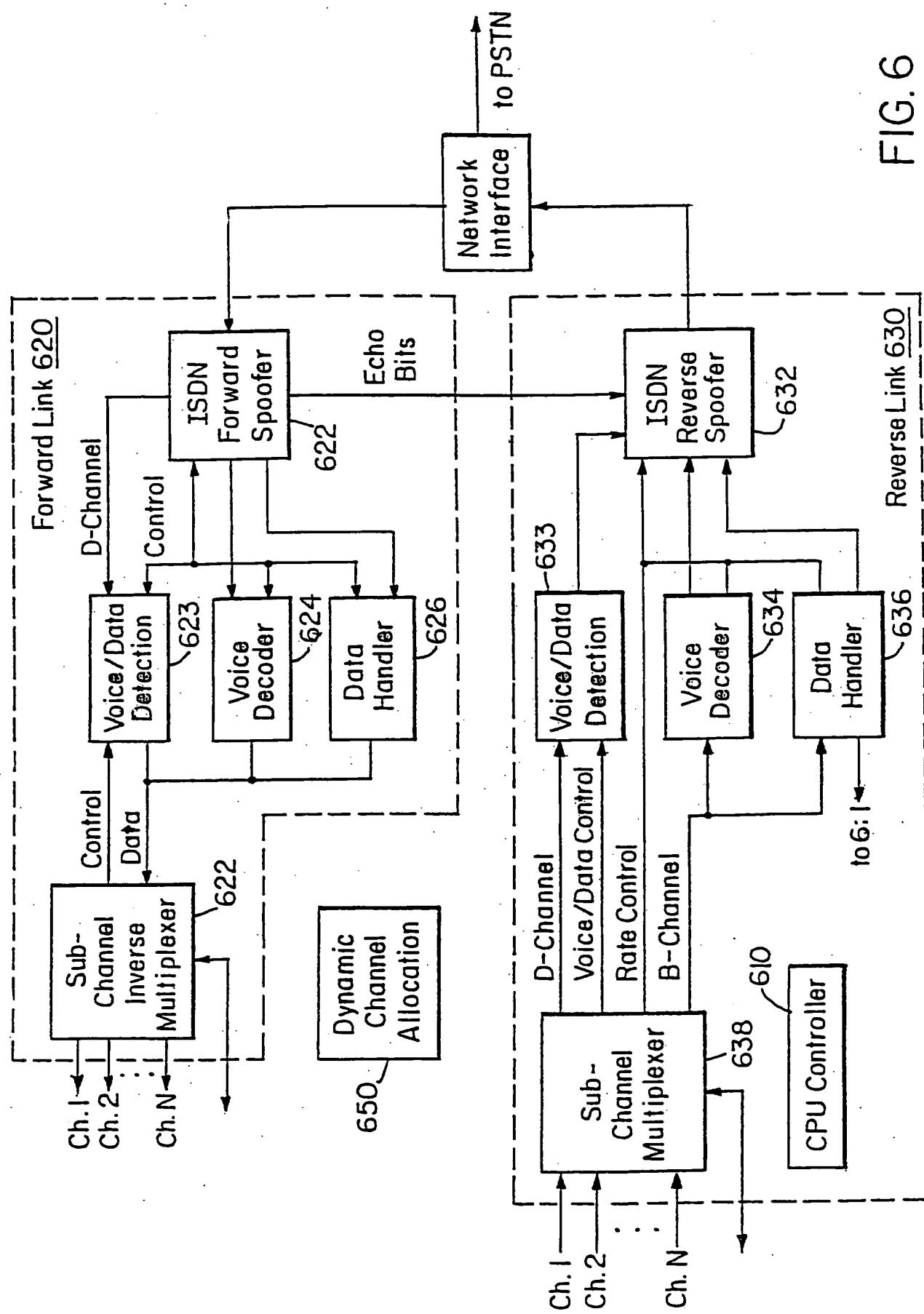


FIG. 6

**MAIN:**

DO Always  
    Process Port Request  
    Process Bandwidth Release  
    Process Bandwidth Requests  
    Locate and tear down unused sub-channels  
ENDDO

} 710

**PORT REQUEST:**

Make reservation in least utilized sub-band  
    Reservation decision based on % of available Sub-Channels to assign (Based on parallel user BW vs. throughput efficiency)

IF reservation was made

    Send frequency and code assignment  
    Update allocations

ELSE

    Add port request to port queue  
    Calculate expected wait time  
    Send wait message to user

ENDIF

} 720

**BANDWIDTH RELEASE:**

Notify channel-bonding function  
Return frequency and code to available pool  
Update radio record

} 730

**BANDWIDTH REQUEST:**

Select highest priority with lowest bandwidth utilization,  
including need-allocation gap

Check other sub-bands for greatest available sub channels  
(Switch sub-bands if difference in sub-band space exceeds payback threshold)

Assign sub channels based on need, priority, availability  
Notify channel bonding function  
Update radio record

} 740

**FIG. 7**